

ComfortStar®

LUC SERIES 14/13 SEER

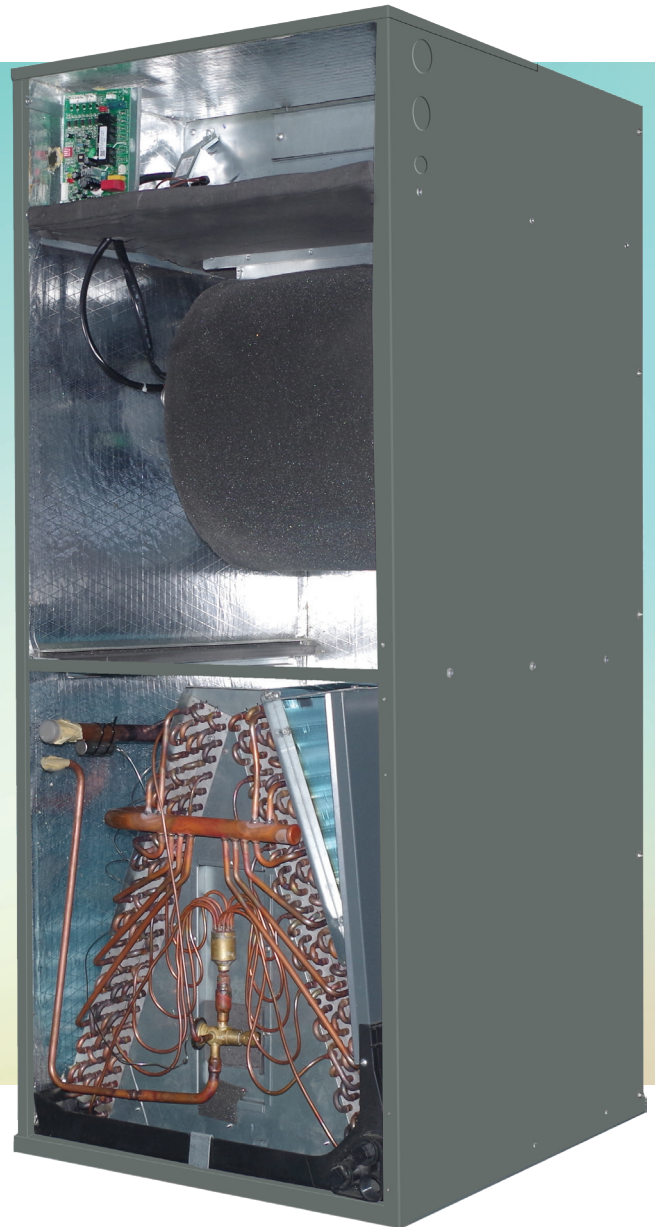


LUC I 1 1/2 - 5 Ton

Three-speed, Multi-position
Air Handler

STANDARD FEATURES:

- Multi-position: upflow and horizontal right.
Easily field converted to downflow and horizontal left
- Suitable for use with R22 or new R410a
- Direct drive, 3-speed PSC motor
- Transformer, fan relay included
- Fuse protected
- Easy slide out motor housing
- Built-in filter rack for 1" filter (filter not included)
- Pre-installed piston for SEER 13 series.
Pre-installed TXV for SEER 14 series.
- Sweat connection
- ARI certified & ETL listed



CABINET FEATURES:

- Galvanized steel with gray powder paint on all panels
- Fully insulated cabinet
- Primary and secondary drain connections (3/4" NPT)
- Power supply entry at side and top, low-voltage entry at top

OPTIONAL ACCESSORIES:

- 5kw to 20kw electric heat kits available for field installation
- Permanent washable air filter



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ComfortStar®

14 MODELS

LUC18-14	LUC18-13
LUC24-14	LUC24-13
LUC30-14	LUC30-13
LUC36-14	LUC36-13
LUC42-14	LUC42-13
LUC48-14	LUC48-13
LUC60-14	LUC60-13

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GENERAL TERMS OF LIMITED WARRANTY

ComfortStar USA warrants that our products conform to the manufacturer specifications and will be free of defects in material and workmanship under normal use and maintenance.



For complete details of the limited warranty, including applicable terms and conditions. Please visit our website or contact our offices. Before proceeding with installation, refer to installation instructions packaged with each model. Please comply with all federal, state, provincial, and local codes, regulations and practices.

Model Number Identification
LUC - Air Handler
18 Capacity 18,000 (Btu/h)
14 SEER

DIMENSIONS

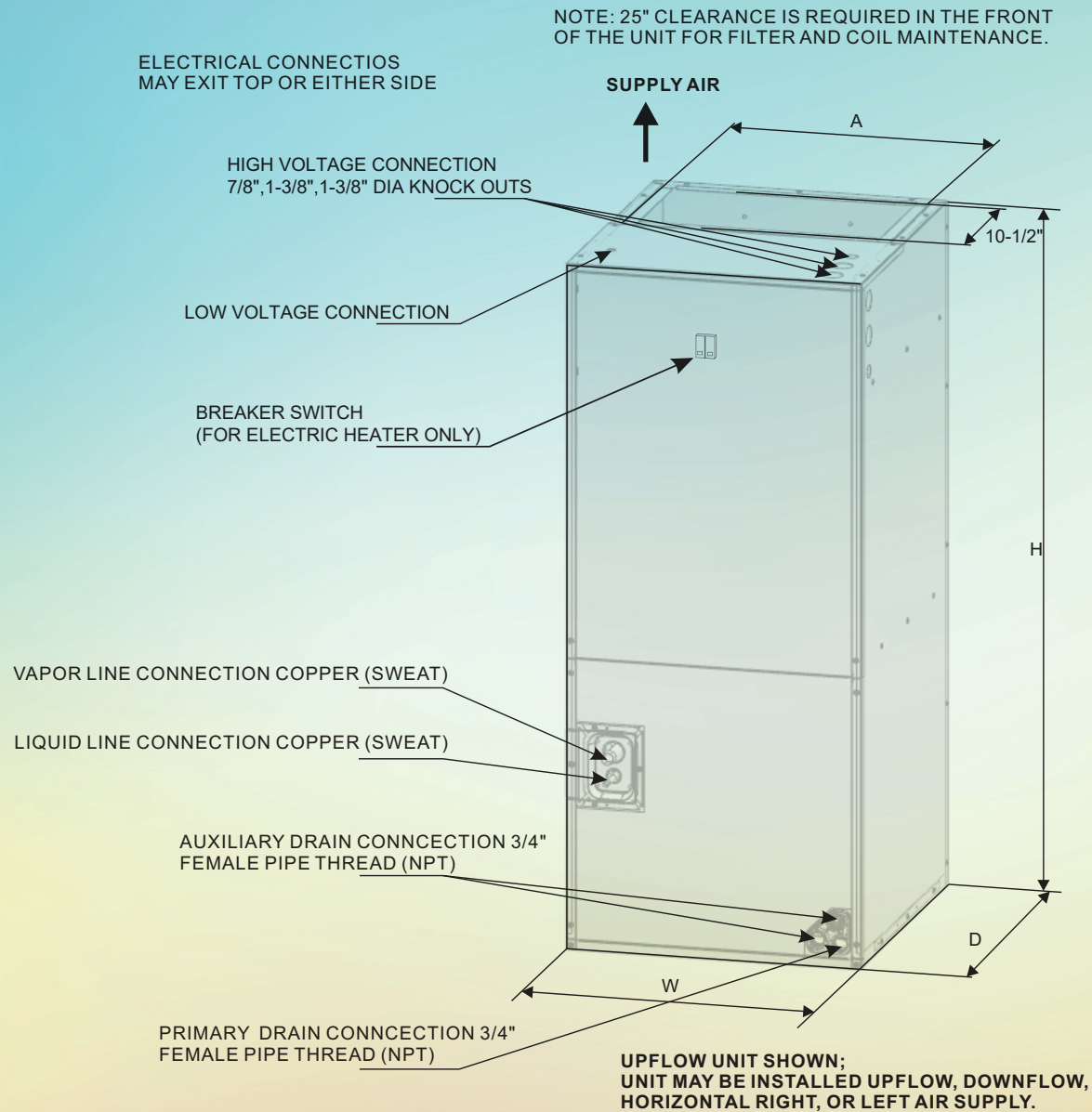


Fig.1 DIMENSIONS

DIMENSIONAL DATA

MODEL SIZE	Dimensions			
	UNIT HEIGHT "H" /mm	UNIT WIDTH "W" /mm	UNIT LENGHT "D" /mm	SUPPLY DUCT"A" /mm
18K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]
24K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]
30K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]
36K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]
42K	45-3/4"[1162]	19-5/8"[500]	22"[560]	17-7/8"[454]
48K	53-1/8"[1350]	22"[560]	24-3/8"[620]	19-1/2"[496]
60K	53-1/8"[1350]	22"[560]	24-3/8"[620]	19-1/2"[496]

LUC I 1 1/2 - 5 Ton

Three-speed, Multi-position
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14 SEER



MODEL			LUC18-14	LUC24-14	LUC30-14	LUC36-14	LUC42-14	LUC48-14	LUC60-14
POWER SUPPLY		V/Ph/Hz	208~230V/1N/60Hz						
Cooling	Capacity	Btu/h	18000	24000	30000	34500	42000	48000	56500
	SEER	Btu/h.W	14	14	14	14	14	14	14
Indoor external static pressure		Pa	25	25	37	37	37	50	50
Throttle type			TXV	TXV	TXV	TXV	TXV	TXV	TXV
Indoor coil	Number of row		3(row)×2(piece)	4(row)×2(piece)	4(row)×2(piece)	4(row)×2(piece)	4(row)×2(piece)	5(row)×2(piece)	5(row)×2(piece)
	Tube pitch(a) x row pitch(b)	in	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53
	Fin spacing	in	1/16	1/16	1/16	1/16	1/16	1/16	1/16
	Fin material		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside diameter	in	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276
	Tube material		inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	in	17 7/16×14 7/8×1 37/64	17 7/16×16 17/32×2 7/64	17 7/16×16 17/32×2 7/64	17 7/16×16 17/32×2 7/64	17 7/16×16 17/32×2 7/64	19 27/32×21 1/2×2 5/8	19 27/32×21 1/2×2 5/8
	Number of circuits		6	8	8	8	8	12	12
Indoor fan motor	Brand		Kangbao	Kangbao	Kangbao	Kangbao	Kangbao	Kangbao	Kangbao
	Type		AC	AC	AC	AC	AC	AC	AC
	Input	W	180	206	288	398	463	578	578
	Output	W	100	135	180	220	270	300	300
	Capacitor	μF	6	6	6	10	10	12	12
	Speed (Hi/Me/Lo)	rpm	440/390/340	570/530/490	670/600/530	805/730/690	839/723/610	920/870/820	920/870/820
blower	diameter	in	12 5/16	12 5/16	12 5/16	12 5/16	12 5/16	12 5/16	12 5/16
	width	in	12 29/32	12 29/32	12 29/32	12 29/32	12 29/32	12 29/32	12 29/32
Indoor air flow		CFM	723/610/500	938/804/738	1204/1060/919	1376/1235/1161	1562/1385/1208	1695/1574/1434	1695/1574/1434
Indoor noise level		dB(A)	40	42	48	51	54	55	55
Indoor dimension	Unit (WxHxD)	in	19.70×45.70×22.05	19.70×45.70×22.05	19.70×45.70×22.05	19.70×45.70×22.05	19.70×45.70×22.05	22.05×53.11×24.45	22.05×53.11×24.45
	Packing (WxHxD)	in	22.40×47.50×24.90	22.40×47.50×24.90	22.40×47.50×24.90	22.40×47.50×24.90	22.40×47.50×24.90	24.80×54.76×27.32	24.80×54.76×27.32

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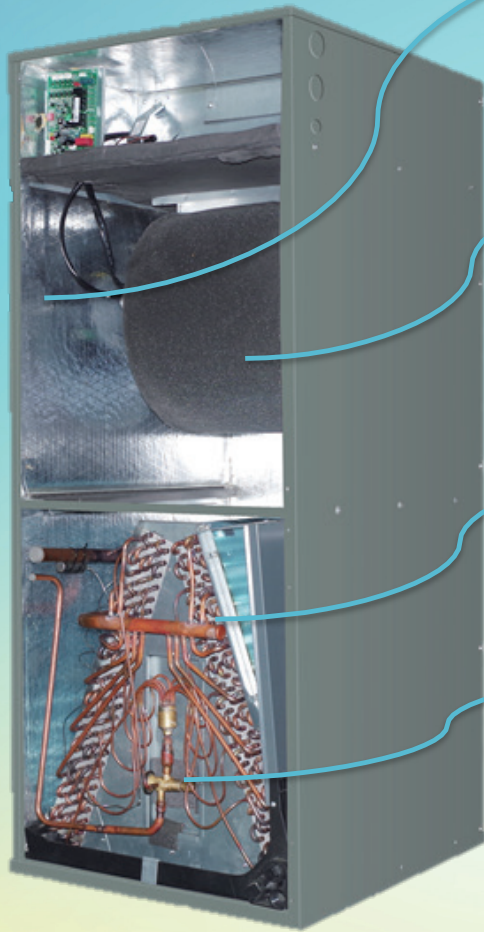
Three-speed, Multi-position
Air Handler

13 SEER



MODEL			LUC18-13	LUC24-13	LUC30-13	LUC36-13	LUC42-13	LUC48-13	LUC60-13
POWER SUPPLY		V/Ph/Hz	208~230V/1N/60Hz						
Cooling	Capacity	Btu/h	18000	24000	30000	34500	42000	48000	56500
	SEER	Btu/h.W	13	13	13	13	13	13	13
Indoor external static pressure		Pa	25	25	37	37	37	50	50
Throttle type			Orifice	Orifice	Orifice	Orifice	Orifice	Orifice	Orifice
Indoor coil	Number of row		3(row)× 2(piece)	4(row)× 2(piece)	4(row)× 2(piece)	4(row)× 2(piece)	4(row)× 2(piece)	5(row)× 2(piece)	5(row)× 2(piece)
	Tube pitch(a) x row pitch(b)	in	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53	0.83×0.53
	Fin spacing	in	1/16	1/16	1/16	1/16	1/16	1/16	1/16
	Fin material		Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophilic
	Tube outside diameter	in	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276	Φ 0.276
	Tube material		inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved	inner grooved
	Coil length x height x width	in	17 7/16×1 4 7/8×1 37/64	17 7/16× 16 17/32×2 7/64	17 7/16× 16 17/32×2 7/64	17 7/16× 16 17/32×2 7/64	17 7/16× 16 17/32×2 7/64	19 27/32× 21 1/2×2 5/8	19 27/32× 21 1/2×2 5/8
	Number of circuits		6	8	8	8	8	12	12
Indoor fan motor	Brand		Kangbao	Kangbao	Kangbao	Kangbao	Kangbao	Kangbao	Kangbao
	Type		AC	AC	AC	AC	AC	AC	AC
	Input	W	180	206	288	398	463	578	578
	Output	W	100	135	180	220	270	300	300
	Capacitor	μF	6	6	6	10	10	12	12
	Speed (Hi/Me/Lo)	rpm	440/390/340	570/530/490	670/600/530	805/730/690	839/723/610	920/870/820	920/870/820
blower	diameter	in	12 5/16	12 5/16	12 5/16	12 5/16	12 5/16	12 5/16	12 5/16
	width	in	12 29/32	12 29/32	12 29/32	12 29/32	12 29/32	12 29/32	12 29/32
Indoor air flow		CFM	723/610/500	938/804/738	1204/1060/919	1376/1235/1161	1562/1385/1208	1695/1574/1434	1695/1574/1434
Indoor noise level		dB(A)	40	42	48	51	54	55	55
Indoor dimension	Unit (W×H×D)	in	19.70× 45.70×22.05	19.70× 45.70×22.05	19.70× 45.70×22.05	19.70× 45.70×22.05	19.70× 45.70×22.05	22.05× 53.11×24.45	22.05× 53.11×24.45
	Packing (W×H×D)	in	22.40× 47.50×24.90	22.40× 47.50×24.90	22.40× 47.50×24.90	22.40× 47.50×24.90	22.40× 47.50×24.90	24.80× 54.76×27.32	24.80× 54.76×27.32

LUC FEATURES



INSULATED CABINET

Galvanized steel with paint on all panels. Thermal insulator cover all inside panels to reduce heat and cooling losses and prevent condensed water accumulation.

MOTOR & BLOWER

Direct drive motors, 3-speed, provide selections of air flow to meet desired applications. $\Phi 10''$ big fan, powerful wind. Motor has thermal protector, which keeps the motor running in safety status.

COIL

"A" shape coils, constructed with copper tubing and enhanced aluminum fins.

EXPANSION DEVICE

Use piston as expansion device(13 SEER)
Use TXV as expansion device(14 SEER)

LUC FEATURES-MULTI-POSITION INSTALLATION

